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# SuperMicro MX-Rx62H

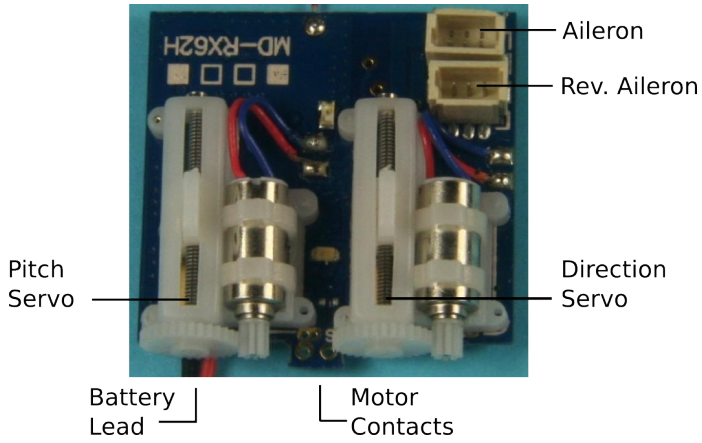
A DSM2 5 channel micro receiver module with 2 x on-board linear servos and 2A brushed ESC. Provides v-tail and delta-wing mixing plus swapping directional channel between rudder and aileron.

**Specification**:

| | |
|---|---|
| Size: | 24 x 24.2 x 8.4mm |
| Weight: | 3.4gm |
| Voltage: | 3.3V – 5V |
| Servo Travel: | 7mm |
| Servo Pull: | 35gm @ 4.2V |

The motor connections are via solder pads on the circuit board. The receiver is available with an optional 2 pin 1.27mm pitch socket soldered onto these pads. This connector is the same as used on the AR6410 and PKZ3352.

The default channel for the directional servo is rudder (ch4). 2 x JST-SH sockets may be used for an external aileron (ch2) servo and reversed aileron. When the directional servo is mapped to aileron, the JST-SH sockets provide rudder and reversed rudder.




## Receiver Installation

The receiver module must be installed rigidly to avoid control vagueness should the module move as the servos are operated. Double-sided foam tape strips and/or minimal hot glue can be used at the corners to install the receiver.

The receiver module is not insulated. **Make sure that it does not come into contact with anything conductive.**

## Receiver Binding

1. Ensure the transmitter is switched off.
2. Plug the flight battery into the receiver's connector. After approx 5 seconds the LED on the receiver board will start flashing rapidly to indicate that is in bind mode.
3. Switch on your transmitter in bind mode – you will need to consult the transmitter user manual as there is a wide variation in techniques for entering bind mode.
4. If bind is successful, the LED will light continuously (no flashing) after approx 10 seconds. Depending on the version of the receiver firmware, the LED may continue flashing until it lights up solid or may stop flashing and go dark for several seconds.
5. If bind fails, alter the orientation between receiver and transmitter aerials, go to step 1 and try again.

## Receiver Programming

**Enter Programming Mode**:
1. Set transmitter throttle stick to middle position and turn on transmitter.
2. Connect 1S battery to receiver and within 2 seconds move elevator stick to lowest position and hold for approx. 2 seconds. The pitch servo will move to the end, pause and then return to the centre.
3. Release elevator stick and receiver LED should go steady on.

**Save settings/Exit programming mode:**
1. Move throttle stick to lowest position and LED should flash 3 times
2. Move rudder stick to left position and LED should flash 1 time
3. Release rudder stick and within a couple seconds receiver will respond to control sticks

**Mixing Mode**:
1. Enter Programming Mode
2. Move throttle stick to highest position and LED should flash 1 time
3. Select mix mode:

| mode | rudder stick | LED flashes | servo channels |
|---|---|---|---|
| normal | full right | 1 | rudder / elevator |
| delta wing | ½ way left | 2 | aileron / elevator |
| v-tail | full left | 3 | rudder / elevator |

**Aileron and Rudder Swapping Mode** (control of on-board direction servo):
1. Enter Programming Mode
2. Slowly move throttle stick down until LED flashes 2 times (I/2 way)
3. Select direction servo channel:

| channel | rudder stick | LED flashes |
|---|---|---|
| rudder | full right | 1 |
| aileron | full left | 2 |

The JST-SH sockets will be connected to the channel not connected to the on-board servo.

**Swapping control of the two On-board Servos**:
1. Enter Programming Mode
2. Slowly move Throttle stick up until LED flashes 2 times (½ way)
3. Select mode:

| mode | rudder stick | LED flashes |
|---|---|---|
| normal | full left | 2 |
| swapped | full right | 1 |

**Returning Receiver to Default Settings**:
1. Enter Programming Mode
2. Move throttle stick to lowest position LED should flash 3 times
3. Toggle elevator stick from full up to full down positions 2 or 3 times
4. LED should flash 3 times
5. This places receiver settings to default mode